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ag 854 E
Cap 2

Graduate School

1946-47



26th Year

Schedule of Classes

Spring Semester

REGISTRATION—Begins January 13

HOURS: 9:00 A.M. to 6:20 P.M.

Monday through Friday

SPECIAL HOURS: OPEN 9:00 A.M. to 1:00 P.M.

Saturday, January 25 and February 1

Veterans Administration training and registration officers will be available on:

January 13, 20 and 27, from 5 to 6:20 P.M.

February 1, from 9 to 12 A.M.

CLASSES BEGIN WEEK OF FEBRUARY 3

Time Schedule and Supplement to 1946-47 Bulletin

Complete details, including rules and regulations, policies, and course descriptions, are given in the **1946-47 Bulletin**. Counselors and training officers of your agency have a copy which you may examine. A limited number of these BULLETINS is available for distribution to those who did not receive copies in the fall. Write or call in person. **Please do not telephone.**

New Courses, or courses differing from the description shown in the 1946-47 Bulletin, are indicated by an asterisk following the course title. Complete course descriptions are available in the School office.

New instructors not listed in the faculty directory in the Bulletin are indicated by an asterisk after the name. Pertinent data are available in the School office.

Counseling on courses and programs of study is available at all times from members of the School staff who are glad to assist students in planning their work.

Registration: begins January 13 (Room 1031, South Building, Department of Agriculture). See schedule of hours on front cover. No one will be registered for credit after February 14, except with special permission of instructor and Registrar. A late registration fee of \$1.00 per course will also be charged after February 14. Registration closes in a course when the maximum for that class is reached.

Textbooks may be purchased in Room 1041, South Agriculture Building, from 4:30 to 6:20 p.m., January 27 through February 21 (Saturdays excluded).

Refund of fees, less \$3.00 registration fee, may be granted in case of withdrawal before 6:20 p.m., February 14. After this date no refunds will be approved unless the student is compelled to leave Washington because of official governmental action.

Room schedules will be posted on the 4th and 7th wing bulletin boards in the South Agriculture Building on January 27.

Classes begin during week of February 3.

Graduate School, Department of Agriculture
Washington 25, D.C.

Please send me your 1946-47 BULLETIN. (Fall requests will not be duplicated.)

Name.....

Street.....

City..... Zone
No.....

Explanation: Basic information about each course is given in the following order: course number, title, instructor, day and hour of class meeting, and fee. Complete course descriptions may be found in the 1946-47 BULLETIN under the departments as here listed. New courses and new instructors are indicated by an asterisk. The first half and the second half of a course are indicated by a and b respectively.

BIOLOGICAL SCIENCES

- 512^b. Medical and Veterinary Entomology (Bishopp)
M 6-8 \$18

LANGUAGES AND LITERATURE

- 222^a. Composition and Rhetoric (Miller) Tu 6-9 \$24
222^b. Composition and Rhetoric (Greene) M 6-9 \$24
223. Descriptive English Grammar (Miller) M 6-8 \$16
224. Creative Writing (Holt) Tu 6-8 \$16
237. Government Printing Procedure (Anderson) F 7-8
\$8
226^b. Writing for Official Purposes (Thone) F 6-8 \$16
229. Effective Speaking (Beauchamp) Th 6:15-8:15 \$16
400. Advanced Public Speaking (Beauchamp) Tu 6:15-
8:15 \$16
232. Voice and Remedial Speech (Emery) Tu 6-8 \$16
350. Effective Meetings (Ensminger, Boatman) M 6-30-
8:30 \$16
305. Radio and the Human Voice (Rowell) M 6-8 \$16
43. Personal Development (Provinsen, Galvin*) Tu 6-8
\$16
327. Current Books (Roberts) Th 6-7 \$8
233^b. Elementary Arabic (Egleston) F 6-8 \$16
253^a. Elementary French (De Noia)* M-Th 6-7:30 \$24
253^b. Elementary French (Humphrey) M-Th 6-7:30 \$24
254^b. Intermediate French (Humphrey) Tu-F 6-7:30 \$24
255^b. Conversational French (Given)* W 6-9 \$24
259^a. Elementary German (Mrs. Lederer)* Th 6-9 \$24
259^b. Elementary German (Lederer) Th 6-9 \$24
260^b. Intermediate German (Ponti) Th 6-9 \$24
270^b. Elementary Italian (Rossetti) W 6-9 \$24
295^a. Elementary Russian (Saharov) Tu 6-9 \$24
295^b. Elementary Russian \$24
 Section I (Schuler) M 6-9
 Section II (Tarakus) W 6-9
296^b. Intermediate Russian (Von Bretzel) Tu 6-9 \$24
299^b. Advanced Russian (Saharov) W 6-9 \$24
300^a. Elementary Spanish (Parsons) W 6-9 \$24
300^b. Elementary Spanish \$24
 Section I (Batista) W 6-9
 Section II (Jaffe)* Th 6-9
301^b. Intermediate Spanish (Mrs. Supervia) M 6-9 \$24
302^b. Spanish Conversation and Literature (Mr. Super-
 via) Th 6-8 \$16
574^b. Advanced Spanish Conversation (Mrs. Supervia)
 Th 6-8 \$18

MATHEMATICS AND STATISTICS

MATHEMATICS

103. Trigonometry and Analytic Geometry (Graves)
M 6:30-8:30 \$16
105. Analytic Geometry* (Lett)* Tu 3:30-5:30 \$16
- 206^b. Calculus (Finan) W-F 6-7:30 \$24
- 206^b. Calculus (Maddaus)* M-W 3:50-5:10 \$24 Given at
Naval Research Laboratory
- 500^b. Advanced Calculus* (Greenspan)* Tu-Th 4:45-6:15
\$27
307. Survey of College Mathematics (Schell) Th 6-9 \$24
- 715^b. Applications in Engineering Mathematics (Cook)
Th 6:30-8:30 \$18
- 709^b. Theory of Infinite Processes (Winston) Th 6:30-8:30
\$18

STATISTICS

123. Survey of Statistics (Simmons) Tu 6-9 \$24
110. Graphic Methods of Presenting Statistics (Hainsworth, Guidry) M 6-8 \$16
- 126^b. Introductory Statistics (Purves) W 6:15-8:15 \$16
- 127^a. Elementary Statistical Analysis (Steinberg) M 6-8
\$16
- 127^b. Elementary Statistical Analysis (Weiss) Th 6-8 \$16
- 516^b. Intermediate Statistics (Tepping) Tu 6-8 \$18
318. Machine Tabulation (Kaufman) W 6:30-8:30 \$12
319. Advanced Study of Tabulating Equipment (Kaufman) F 6:30-8:30 \$12
- 520^b. Statistics of the Federal Government (Ullman)
W 6-8 \$18
- 735^b. Theory of Sample Surveys (Hansen, Hurwitz) W
7:30-9:30 \$18
717. Interview Survey Techniques in the Social Sciences (Chapman) M 7-9 \$18
- 738^b. Introduction to Sampling and Statistical Inference (Deming) Th 7-10 \$27
- 739^b. Multivariate Analysis (Blackwell)* Tu 6:30-9:30
\$27
745. Seminars in Sampling and Statistical Inference (Deming) Time to be announced

OFFICE TECHNIQUES AND OPERATIONS

108. Administrative Procedure (Hickey) W 6-8 \$16
208. Advanced Administrative Procedure (Moseley)*
M 6-8 \$16
116. Federal Budgetary Procedure (Hanna) M 6:30-8:30
\$16
122. Federal Payroll Procedure (Krueger, Marshall) Th
6-8 \$16
112. Federal Accounting Procedure (Tierney) Th 6-9
\$24
110. Federal Auditing Procedure (Cruikshank) M 6-8
\$16
210. Advanced Federal Auditing Procedure* (Collins)*
Th 6-8 \$16
413. Office Management (Braum) M 6-8 \$16
114. Federal Personnel Procedure (Mohagen) M 6-8 \$16
214. Advanced Federal Personnel Procedure (Mohagen)
Tu 6-8 \$16
215. Advanced Federal Purchasing Procedure (Scammarhorn) Tu 6-8 \$16

- 217. **Advanced Records Management** (Donaldson, Smith and Lecturers) Tu 6-8 \$16
- 118. **Practical English Usage** (White) Th 6-8 \$16
- 119. **Vocabulary Building** (Huberman)* Tu 6-8 \$16
- 120. **Government Letter Writing** (Samson) F 6-8 \$16
- 89. **Review of Gregg Shorthand** (Evans) Tu-Th 6-7:30 \$24
- 129. **Beginning Gregg** (Vale)* M-Tu-Th 6-7 \$24
- 130. **Intermediate Gregg** (Richter) M-Th 6-7:30 \$24
- 230. **Gregg, 70 to 100 Words** (Coffman) Tu 6-8 \$16
- 231. **Gregg, 100 to 130 Words** (Hylton)* Tu 6-8 \$16
- 335. **Reporting—Gregg, 140 to 200 Words** (Foote) M-Th 6:30-8:30 \$32

PHYSICAL SCIENCES

- 147^b. **General (Inorganic) Chemistry** (Carter) F 6-8 \$16
- 248^b. **Organic Chemistry** (Bowen) Th 6-8 \$16
- 349^b. **Physical Chemistry** (Hamer) Tu 6-8 \$16
- 522^b. **Physiological Chemistry** (Johnston) W 6-8 \$18
- 762^b. **Electrochemistry** (Hamer) Th 6-8 \$18
- 531. **Soils: Their Morphology, Genesis and Classification** (Orvedal)* M-W 6-7:30 \$27
- 452. **Principles of Physical Metallurgy** (Loring) Th 3:30-5:30 \$16
- 526. **Advanced Physical Metallurgy** (Loring) W 6-8 \$18
- 162. **Principles of Meteorology** (Johnson) Tu 6-9 \$24
- 533^b. **Hydrology** (Linsley) Th 6-9 \$27
- 536^b. **Physical and Synoptic Meteorology** (Shands) W 6-9 \$27
- 350. **Physics of the Upper Atmosphere** (Garstens) F 6-8 \$16
- 537. **Weather Analysis and Forecasting** (Teweles, Beebe) M-F 6:30-8:30 \$27 and \$3 laboratory fee
- 153^b. **Introductory College Physics** (Kilgore) M-Th 6:30-9 \$32 and \$3 laboratory fee
- 700^b. **Advanced Optics** (Kiess) M-W 5:10-6:30 Special fee of \$21 for the year

PUBLIC ADMINISTRATION

- 341. **American National Government** (Smith) F 6:30-8:30 \$16
- 344. **Introduction to Public Administration** (Brown)* W 6-9 \$24
- 570. **Management Responsibilities for the Administrative Scientist*** (Harwood)* Tu 4:30-6:30 \$16
- 400. **Administrative Operations for Congressional Assistants** (Sheppard)* Tu 6-8 \$16
- 710. **Seminar in Public Relationships in Government Administration** (Webster) Th 6-8 \$18
- 700. **Seminar in Organizational and Procedural Analysis** (Stone, Loftus) F 6:15-8:15 \$18
- 519. **Work Measurement and Performance Standards** (McKillop) Tu 6-8 \$18
- 701. **Seminar in Work Measurement and Performance Standards** (Shaw) W 6-8 \$18
- 636. **Agency Budgetary and Financial Administration: Budget Execution** (Roberts) Th 6-8 \$18
- 561. **Public Personnel Administration** (Stahl) Tu 6-8 \$18
- 640. **Veterans Legislation and Administration** (Petrie) Tu 6-8 \$18

559. **Position Classification** (Hill, Laxton) M 6-8 \$18
643. **Advanced Position Classification** (Buckley) M 6-8 \$18
633. **Employee Relations and Employee Services** (Kraus) F 6-8 \$18
842. **Personnel Division Management** (Couch) M 6-8 \$18
717. **Administrative Law and Procedure*** (Flavin) W 6-8 \$18
549. **Property Management** (Ward and Specialists) Tu 6-8 \$18
- 352^a. **Principles of Accounting—First Half** (Dye) Tu 6-9 Th 6-7 \$24
- 352^b. **Principles of Accounting—Second Half** \$24
Section I (Rowe) M 6-9 W 6-7
Section II (Marshall) Tu 6-9 Th 6-7
- 353^b. **Intermediate Accounting—Second Half** (Hord) M 6-9 \$24
- 422^b. **Business Law** (Mostow) Tu 6:30-8:30 \$16
354. **Federal Government Accounting** (Mason) W 6-9 \$24
693. **Auditing** (Cooper) Tu 6-9 \$27
423. **Mathematics of Finance** (Botts) Tu-F 6-7:30 \$24
- 646^b. **Advanced Accounting Problems** (Acker) W 6-9 \$27

SOCIAL SCIENCES

- 201^b. **Principles of Economics** (Thomsen) Tu 6-9 \$24
418. **Public Finance and Taxation** (Musgrave)* W 6-8 \$16
741. **Contemporary Economic Thought** (Allin) Th 6-8 \$18
709. **Structure of American Business** (Magdoff) W 6-8 \$18
711. **Imperfect Competition and Public Regulation** (Means) W 6-9 \$27
402. **Measurements of Economic Activity** (Cavin) W 6-8 \$16
703. **Modern Monetary and Business Cycle Theories** (Cochrane) Tu 6:30-8:30 \$18
704. **Economic Theory of International Trade*** (Wadleigh) M 6-8 \$18
325. **Managing Personal Finances** (Larsen and Specialists) Tu 6-8 \$16
419. **Standards of Living** (Kelley) W 6-8 \$16
404. **Market Analysis** (Thomsen) W 6-8 \$16
406. **Marketing Industrial Goods** (Graham and Lecturers) F 6:30-8:30 \$16
712. **Research Methods in Social Sciences** (Ezekiel) M 7-9 \$18
717. **Interview Survey Techniques in the Social Sciences** (Chapman) M 7-9 \$18
715. **Seminar in Agricultural Price and Income Policy** (Wells) M 6-9 \$27
718. **Seminar in Rural Social Policies** (Woofter) F 7-9 \$18
409. **Farm Management*** (Goodsell and Specialists) Tu 6-8 \$16
700. **Basic Evaluation Adapted to Extension Teaching*** (Sabrosky and Specialists)* February 24–March 7, 10-12 a.m., 3-5 p.m. Special fee \$10

701. **Research Methods and Techniques as Applied to Extension Work*** (Gallup and Specialists)* Tu 3-5, February to August, first Tuesday of each month. Special fee \$5
412. **Risk and Insurance** (Rowe) Th 6-9 \$24
720. **Seminar in Economics of Production** (Johnson) W 6-9 \$27
721. **Seminar in Agricultural Finance** (Wall, Engberg) Tu-Th 6-7:30 \$27
722. **Seminar in Marketing** (Waugh) F 6-9 \$27
724. **Problems and Machinery of World Organization*** (Spitzer, Griffith)* M 6-9 (Beginning March 10) \$18
815. **Seminar in National and International Policies Affecting Agriculture** (Wheeler) M 6-8 \$18
819. **Non-Self-Governing Peoples and Trusteeship, National and International** (Green, Gerig) W 7-9 \$18
430. **Contemporary Russia** (Herman)* Th 7-9 \$16
400. **Psychology of Human Relations** (Pierce)* Th 6-8 \$16
500. **Child and Adolescent Psychology** (Colm)* W 7-9 \$18
502. **Rural Social Psychology** (Taylor, McKain)* M 6-8 \$18
503. **The Conditions of Personality Growth** (Shepherd)* Tu 6-8 \$18
504. **Personality Disorders** (Ives) M 6-8 \$18
505. **Principles of Interviewing and Counseling** (Barron) W 6-8 \$18
506. **Principles of Rural-Urban Sociology** (Anderson) F 6-8 \$18
509. **La America Latina y los Estados Unidos*** (Green) M 6-8 \$18
511. **Population Research Methods and Analysis** (Hagood) Tu 6-8 \$18
514. **The Social Problems of Administration** (Provinse) Th 6:30-9:30 \$27
- 605^b. **Communications in Society** (Smythe) Tu 6:30-8:30 \$18
602. **Traffic Management—Rates and Rate Determination** (Dolch) Th 6-9 \$27

TECHNOLOGY

403. **Principles of Air Conditioning** (Dill) Tu 6:30-8:30 \$16
300. **Agricultural Engineering Orientation** (Turner) Tu 6-7 \$8
- 700^b. **Analysis of Rigid Frames** (Amirikian) Tu-Th 7-9 \$27
- 702^b. **Electric Utility Engineering** (Jessel) M 6-8 \$18
535. **Hydraulics of Open Channels** (Jacob) M-Th 7-8:30 \$27
- 310^b. **Aerodynamics** (Long) F 6-8 \$16
301. **Soil Mechanics** (Barber) F 6-9 \$24
541. **Photoelasticity** (Brock) M-Th 7-8:30 \$27
- 542^b. **Mechanical Vibrations** (Levy) Tu 6-8 \$18
552. **Modern Engineering Materials** (MacLeod and Specialists) Tu 6:30-8:30 \$18
- 211^b. **Advanced Surveying** (Rappleye) M 6-8 \$28 (Field work all day Saturday, every fourth Saturday)
- 212^b. **Elementary Aerial Photogrammetry** (Higginson) Tu-Th 7-9 \$28

- 214^b. Cartography (Everett) Tu 6-8 \$16
321. Pencil Sketching and Freehand Drawing (Cadmus)
M-W 6-8 \$24
322. Art Appreciation (Richards)* Tu 6-8 \$16
323. Drawing for Portraiture and Illustration (Lazzari)
M-W 6-8 \$24
320. Water Color Painting (Lyon) M-W 6-8 \$24
- 331^a. Home Decoration (Garrels) W 7-8 \$8
- 331^b. Home Decoration (Garrels) W 6-7 \$8
327. Domestic Architecture (Powers) F 6-8 \$16
315. Theory of Modern Architecture (Yerkes and Specialists) M 6-8 \$16
316. Landscape Development of the Small Property (Hagemann) W 6-8 \$16
- 324^b. Basic Mechanical Drawing (Wiemer) Tu-F 6-8 \$24
- 325^b. Architectural Drafting (Wiemer) Tu-F 6-8 \$24
- 188^b. Glass Blowing (Clark) M-W 6-7:30 \$24
192. Basic Photography (Briggs) Tu 6:15-8:15 \$16
197. Chemistry of Photography (Faust) W 6-8 \$16
193. Applied Photography \$16 and \$2 laboratory fee
Section I (Purdy) M 6-8
Section II (Purdy) W 6-8
196. Applied Color Photography (Purdy) Th 6-9 \$24
and \$5 laboratory fee
250. Textile Design and Fabric Development (Baldwin)
M-W 6:30-8 \$24

**Courses are open to non-Federal employees
insofar as facilities permit**

Summer Session—10 weeks—

**June 9 through August 15. Program
available May 15**

